Express Mail Label No.: ED 798634993 US Attorney Docket No.: 100869-1P US

Rec'd PCT/PTO 21 SEP 2005

# ATENT COOPERATION TREAT

From the INTERNATIONAL PRELIMINARY	EXAMINING	AUTHORIT	<b>'</b> '''']		PCT	1 7 MAR 200
То:					1 01	"AK 200
ASTRAZENECA Global Intellectual Property	CODE	DATE	NTD	NTD NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY		
S-151 85 Södertälje SUEDE	CODE	DATE	NID			
		<u> </u>	<u> </u>		(PCT Rule 71.1)	
	ANKOM 1 5 MAR 200		INS GIPS			
			Date of			
	DATA		(day/mo			
Applicant's or agent's file reference 100869-1 WO	FINAL CHECK			IMPO	ORTANT NOTIFICAT	TION
International application No. PCT/GB2004/001132	Internation 16.03.2		day/month/y	rear)	Priority date (day/mon 20.03.2003	th/year)
Applicant ASTRAZENECA AB et al.						

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Authorized Officer

Cardenas, C

Tel. +31 70 340-3370



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ANKOM 16 MAR 2005

DATE

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CODE

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 100869-1 WO	FOR FURTHER AC	CTION	See Form PCT/IPEA/416	
International application No. International filing date PCT/GB2004/001132 16.03.2004		day/month/year)	Priority date (day/month/year) 20.03.2003	
International Patent Classification (IPC C07D413/14, C07F9/6558, A61	) or national classification and IF K31/422, A61K31/675, A6	PC 11P31 <i>0</i> 4		
Applicant ASTRAZENECA AB et al.				
Authority under Article 35 an	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>			
2. This REPORT consists of a	total of 6 sheets, including th	nis cover sheet.		
3. This report is also accompar			•	
a. Sent to the applicant	and to the International Bure	au) a total of sheets	s, as follows:	
and/or sheets cor	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
coguence listing and				
4. This report contains indications relating to the following items:				
☐ Box No. I Basis of th	e opinion			
☐ Box No. II Priority	•			
☑ Box No. III Non-estab	lishment of opinion with rega	rd to novelty, invent	ive step and industrial applicability	
☐ Box No. IV Lack of un	ity of Invention			
☐ Box No. V Reasoned applicabilit				
☑ Box No. VI Certain do	cuments cited			
	fects in the international appl		•	
Box No. VIII Certain ob	servations on the internation	al application		
Date of submission of the demand		Date of completion o	f this report	
22.09.2004		07.03.2005		
Name and mailing address of the interpreliminary examining authority:		Authorized Officer		
European Patent Office NL-2280 HV Rijswijk - F Tel. +31 70 340 - 2040 Fax: +31 70 340 - 3016	Tx: 31 651 epo nl	Allard, M Telephone No. +31 7	70 340-2002	

10/550038



# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/001132

	Box	(No. I	. I Basis of the report	
1.	With	h regard i, unless	gard to the <b>language</b> , this report is based on the internation less otherwise indicated under this item.	nal application in the language in which it was
		which inte	s report is based on translations from the original language ch is the language of a translation furnished for the purpose international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4 international preliminary examination (under Rules 55.2 and	es of:
2.	hav	e been	gard to the <b>elements*</b> of the international application, this re een furnished to the receiving Office in response to an invita is "originally filed" and are not annexed to this report):	eport is based on (replacement sheets which ation under Article 14 are referred to in this
	Des	cription	tion, Pages	
	1-58		as originally filed	
	Clai	ims, Nui	Numbers	
	1-12	2	as originally filed	
		a sequ	equence listing and/or any related table(s) - see Supplemer	ntal Box Relating to Sequence Listing
3.		☐ the☐ the☐ the☐ the☐	e amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):	
4.	□ had Sup	i not be oplement the last the	s report has been established as if (some of) the amendme been made, since they have been considered to go beyon mental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):	ents annexed to this report and listed below d the disclosure as filed, as indicated in the
	_	76 34	item a smaller game or all of those sheets	may be marked "superseded "

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/001132

_		No. III Non-establishment o	f opi	nion with regard to novelty, inventive step and industrial	
<ol> <li>The questions whether the claimed invention appears to be novel, to involve an inventive step (to be robvious), or to be industrially applicable have not been examined in respect of:</li> </ol>				ntion appears to be novel, to involve an inventive step (to be non- have not been examined in respect of:	
		the entire international application,			
☑ claims Nos. 7 (in whole), 8, 9-12 (in part)			part)		
		because:			
the said international application, or the said claims Nos. 8 relate to the following subject matter which not require an international preliminary examination (specify):				the said claims Nos. 8 relate to the following subject matter which does ary examination (specify):	
		see separate sheet			
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
		I the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.			
	$\boxtimes$	no international search report has been established for the said claims Nos. 7 (in whole), 9-12 (in part)			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Ani C of the Administrative Instructions in that:				
		the written form		has not been furnished	
				does not comply with the standard	
		the computer readable form		has not been furnished	
				does not comply with the standard	
		the tables related to the nucleon not comply with the technical re	ide a quire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.	
		See separate sheet for further of	detai	ds	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/001132

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-6, 8-12

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-6, 8-12

Industrial applicability (IA)

Yes: Claims

1-6, 9-12

No: Claims

1-0, 3-

2. Citations and explanations (Rule 70.7):

see separate sheet

### Box No. VI Certain documents cited

Certain published documents (Rule 70.10)
 and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET) International application No.

PCT/GB2004/001132

## Reference is made to the following documents:

D1: WO 01/81350 A (ASTRAZENECA AB ET AL) 1 November 2001 (2001-11-01)

D2: LEE S C ET AL: "Carbon-carbon linked (pyrazolylphenyl)oxazolidinones with antibacterial activity against multiple drug resistant gram-positive and fastidious gram-negative bacteria" BIOORGANIC AND MEDICINAL CHEMISTRY, vol. 9, no. 12, December 2001 (2001-12), pages 3243-3253, XP002283682

D3: PHILILIPS O A ET AL: "Synthesis and antibacterial activity of 5-substituted oxazolidinones" BIOORGANIC AND MEDICINAL CHEMISTRY, vol. 11, no. 1, 2 January 2003 (2003-01-02), pages 35-41, XP002283683

### Re item iii

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 8 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

The term "pro-drug" used in claims 7-12 is a functional term, which in the present case is so unclear (Article 6 PCT), even in the light of the description (page 11, line 16, to page 12, line 3), that a meaningful international search with regard to this term is impossible. Consequently, the subject-matter of claim 7 in the whole, and further of claims 8-12 insofar it relates to a "pro-drug", which has not been searched, shall not be the subject of the present opinion, see Rule 66.1 (e) PCT.

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (Article 33(2) PCT)

The available prior art does not disclose oxazolidinones having the combination of N-HET and T substituents as recited in claim 1 of the present application: the subject-

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/001132

matter of claims 1-6 and 8-12 is therefore novel.

### Inventive step (Article 33(3) PCT)

D1, which is considered to represent the closest prior art, describes amongst others antimicrobial 2-oxazolidinones substituted in position 5 by a N-azolylmethyl residue, and substituted in position 3 by a (hetero)aryl radical, itself substituted by a T group, see claims 1 and 12 of D1. The group T may be amongst others an unsaturated 5-membered heteroaryl linked through a carbon atom, like a triazole, pyrazole, isoxazole or isothiazole, see D1, page 8, lines 24-27, and page 27, lines 15-20.

In the light of the teachings of D1, the problem underlying and solved by the present application can be seen in the provision of further antibacterial oxazolidinones.

The solution to this problem proposed in the present application is merely the selection of a combination of meanings of the substituents in position 3 and 5 of the oxazolidinone ring, combination already suggested, but not specifically disclosed, in D1. Such selection does not involve an inventive step in the absence of substantiated surprising resulting effects or properties.

It is moreover noted that such combination is also suggested by the combined teachings of D2 and D3.

The subject-matter of claims 1-6 and 8-12 lacks therefore an inventive step.

### Industrial applicability (Article 33(4) PCT)

The compounds, compositions and processes of claims 1-6 and 9-12 can be applied in the pharmaceutical industry.